Fewer and Less Severe Angina Attacks

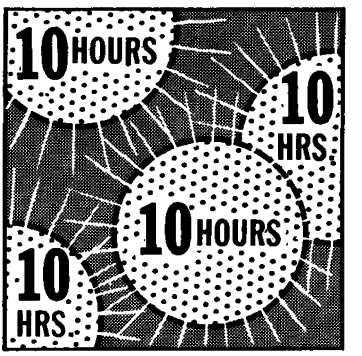
with nitroglycerin in a unique form—Micro-Dialysis Cells

Cardiologists generally agree that nitroglycerin is the single most valuable drug for use in angina. This unique micro-dialysis cell is available in a diffusion-membrane, controlled, continuous-action capsule that prophylactically provides medication *thirty times longer* than a single sublingual tablet. It is called NITRO-SPAN (brand of nitroglycerin). It does not take the place of the sublingual tablet during an acute anginal episode.

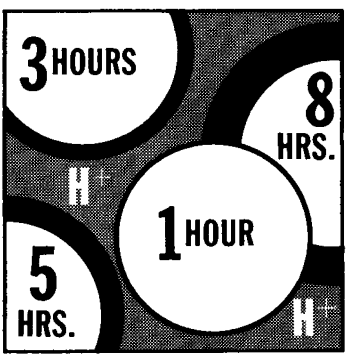
However, NITRO-SPAN is a timed-release medication that provides accurate, reliable, consistent, 10 to 12-hour treatment. Result: *fewer and less severe angina attacks.*

Unlike conventional disintegration tablets, NITRO-SPAN diffusion-membrane pellets act independently of pH, enzymatic action, or any other gastrointestinal functions. Because these functions vary from patient to patient, and even in the same patient at different times, the action of the disintegration tablet can produce erratic and unpredictable results.

On the other hand, NITRO-SPAN incorporates a remarkable principle in the pharmacodynamics of timed-release medication. The nitroglycerin is enclosed in a dialyzing membrane of controlled permeability. Each pellet is, in fact, a "MICRO-DIALYSIS CELL" which releases its contents over an entire 10 to 12-hour period, making possible a release rate not otherwise attainable.



Micro-dialysis cells are identical. Do not depend on body processes. Thus release rates are consistent.



Disintegration coatings of various thicknesses depend on variable body processes. Release rates can be unpredictable.

Each NITRO-SPAN capsule provides 2.5 mg. of nitroglycerin, U.S.P., processed to release uniformly over a 10 to 12-hour period.

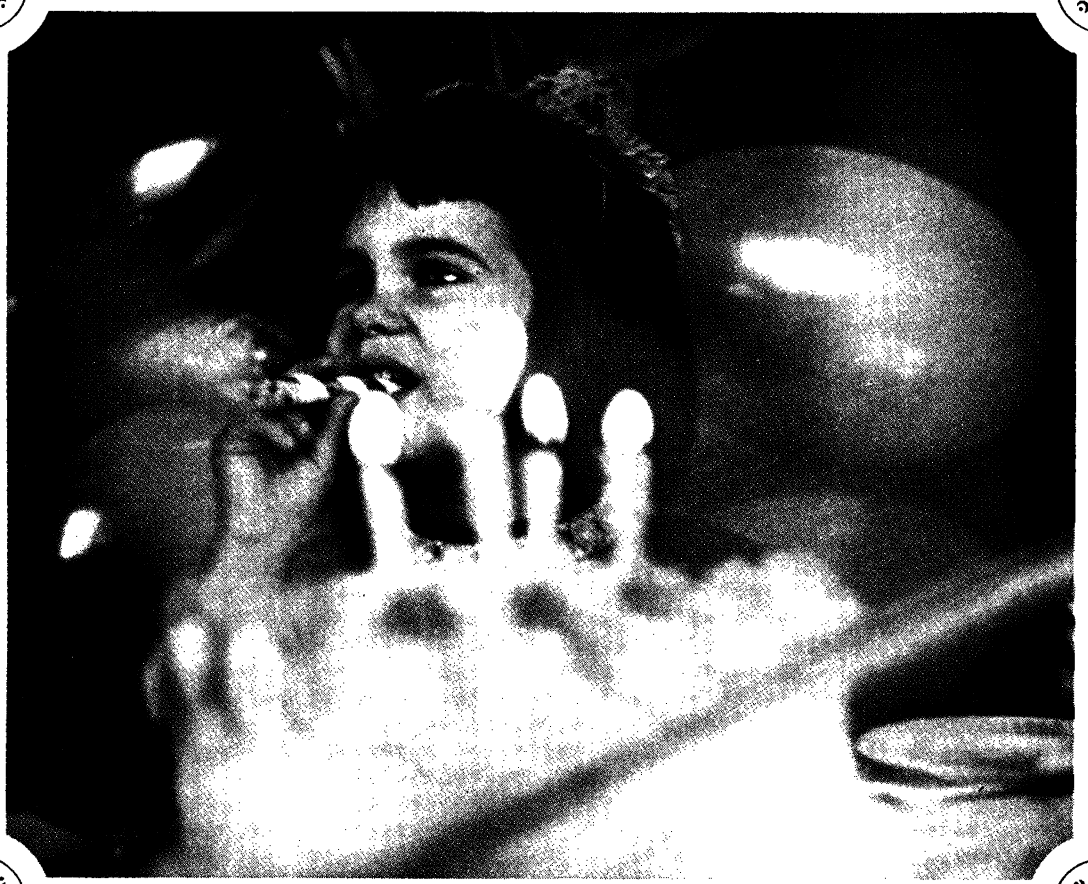
Clinical indications: Prophylactic use only in angina pectoris.

Dosage: One capsule before breakfast, one capsule at bedtime (at 12-hour intervals).

Contraindications: Early myocardial infarction. Caution: These capsules are intended for prophylactic use only. For the relief of an acute anginal attack the sublingual nitroglycerin tablets should be used. Federal law prohibits dispensing without prescription. Precautions: Overdosage may cause transient headache.

NITRO-SPAN®
brand of nitroglycerin in micro-dialysis cells

Ethispan, Inc.
777 Third Avenue
New York 17, N. Y.



FOUR, AFEBRILE AND AFFABLE

and a happy return from pneumonia

when the invader
is tetracycline-sensitive

the "extra" benefits raise the level of antibiotic control

DECLOMYCIN®

DEMETHYLCHLORTETRACYCLINE

tasty, cherry flavor

SYRUP & DROPS

ALSO AVAILABLE IN CAPSULES

the distinctive advantages of DECLOMYCIN
- include the option of b.i.d. dosage
- lower mg. intake (per dose and per day)
- 1-2 days' "extra" activity to protect against relapse and secondary infection

Side Effects typical of tetracyclines which may occur: glossitis, stomatitis, proctitis, nausea, diarrhea, vaginitis, dermatitis, overgrowth of nonsusceptible organisms. Also, photodynamic reaction (making avoidance of direct sunlight advisable) and, very rarely, anaphylactoid reaction. Reduce dosage in impaired renal function. The possibility of tooth discoloration during development should be considered in administering any tetracycline in the last trimester of pregnancy, in the neonatal period, and in early childhood. Increased intracranial pressure is a possibility in early infancy.
Syrup: 75 mg. per 5 cc. tsp., bottles of 2 and 16 fl. oz.
Pediatric Drops: 60 mg. per cc., bottle of 10 cc. with dropper.
Average Dosage for Infants and Children: 3 to 6 mg. per pound body weight per day, divided into 2 or 4 doses, depending on severity. Calcium-containing food or drugs should not be given within one hour before or two hours after a dose.

LEDERLE LABORATORIES, A Division of AMERICAN CYANAMID COMPANY, Pearl River, New York
8085-9715

Lederle

The Bulletin of The New York Academy of Medicine, Vol. 41, No. 4, April, 1965. Published monthly by The New York Academy of Medicine, 2 East 103 Street, New York 29, N. Y. Entered as second-class matter February 3, 1928, at the Post Office at New York, N. Y., under the act of August 24, 1912. Postage paid at New York, N. Y. Annual subscription United States and Canada $8.00. All other countries $9.00. Single copies $2.00.

Needs

FOR THE PATIENT WHO REALLY WANTS TO LOSE WEIGHT...

Your Supervision

Obedrin-LA

Obedrin Menu Plan

The success of practically any weight control plan depends on the patient's attitude. An understanding of the underlying causes of food craving and a strong willingness to solve the problem of overweight are necessary. Lack of this attitude explains the infrequent success of many ventures in weight control.

For your patient who really needs to lose weight, this program is most effective:

***PHYSICIAN SUPERVISION**—to plan a safe, effective and individually tailored route for weight loss, with frequent physical checkups to uncover any elements which may change the plan.

***OBEDRIN-LA**—not just an anorectic, Obedrin-*LA* covers a wide range of needs from vitamin supplementation and tissue fluid mobilization to appetite suppression and mood elevation in one convenient, all-day, optimum level, "trickle release" form.

***OBEDRIN MENU PLAN**—a common sense diet that solves the problem of calorie-counting while encouraging sustained good eating habits after weight reduction is accomplished.

Dosage is 1 tablet daily, usually at 10 a.m.

Supplied in bottles of 50 and 250 tablets, on prescription only.

Caution: Insomnia, excitability, nervousness may occur if dosage is excessive. These occur infrequently and are mild with the recommended dosage. Use with caution in patients having a sensitivity to sympathomimetic compounds or barbiturates and in cases of coronary or cardiovascular disease or severe hypertension. Excessive use of amphetamines by unstable individuals has been reported to result in a psychological dependence. In such instances, withdrawal of the medication is necessary. All medication should be used with caution in pregnant patients, especially in the first trimester.

Long-Acting

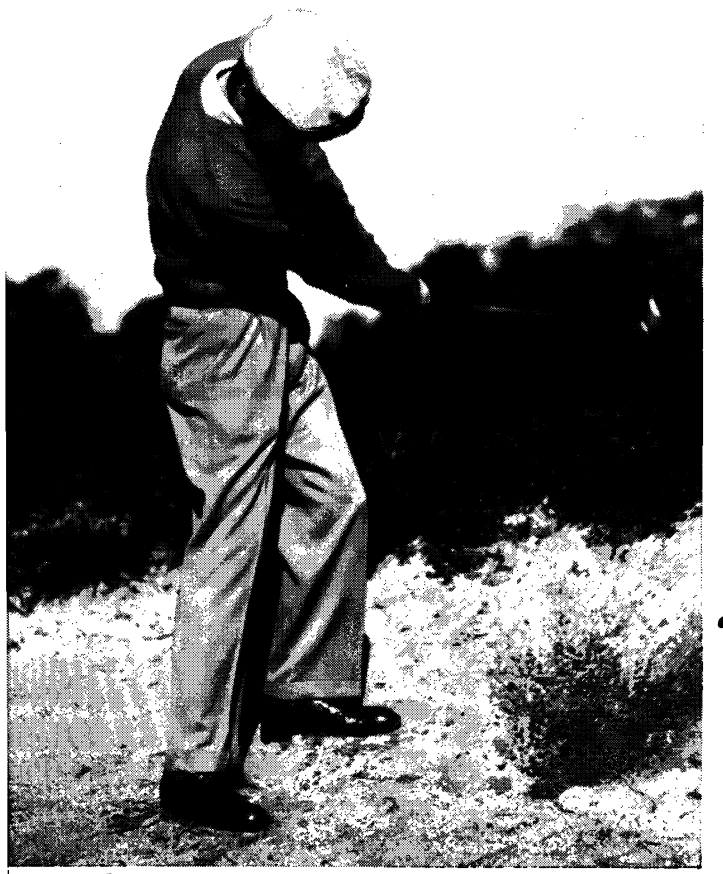
Obedrin®-LA*

"TRICKLE RELEASE" TABLETS

Each tablet contains: Methamphetamine HCl*, 12.5 mg.; Pentobarbital*, 50 mg. (Barbituric Acid derivative; Warning: May be habit forming); Ascorbic Acid, 200 mg.; Thiamine Mononitrate, 1 mg.; Riboflavin, 2 mg.; Nicotinic Acid (Niacin), 10 mg.

*U.S. Pat. Nos. 2,736,682; 2,809,916; 2,809,917; 2,809,918 and pat. pend.

THE S. E. MASSENGILL COMPANY Bristol, Tennessee • New York • Kansas City • Chicago • Dallas • San Francisco



Your patient doesn't have to be in the Masters to get sprains and strains

'Soma' Compound helps relieve pain and relax muscle in many musculoskeletal disorders. Patient comfort can be increased and recovery time shortened.

Soma® Compound

carisoprodol 200 mg., phenacetin 160 mg., caffeine 32 mg.

rational combination therapy for most patients with strains and sprains: relaxes muscle, relieves pain

Also available as 'Soma' Compound with Codeine: carisoprodol 200 mg., phenacetin 160 mg., caffeine 32 mg., codeine phosphate 16 mg. (Warning: may be habit-forming.)

(Warning: Codeine may be habit-forming)

Indications: 'Soma' Compound and 'Soma' Compound with Codeine are useful for relief of pain and stiffness in traumatic, rheumatic and other conditions affecting muscles and joints.

Contraindications: Allergic or idiosyncratic reactions to carisoprodol, phenacetin, or codeine phosphate.

Precautions: *Phenacetin*—With long-term use, give cautiously to patients with anemia and cardiac, pulmonary, renal or hepatic disease. May damage the kidneys when used in large amounts or for long periods. *Caffeine*—Not recommended for persons extremely sensitive to its CNS stimulating action. *Codeine phosphate*—Use with caution in addiction-prone individuals. *Carisoprodol*—Carisoprodol, like other central nervous system depressants, should be used with caution in patients with known propensity for taking excessive quantities of drugs and in patients with known sensitivity to compounds of similar chemical structure, e.g. meprobamate.

Side effects: Drowsiness, lightheadedness, dizziness, and gastric complaints have been reported infrequently for either or both of these preparations. *Phenacetin*—Side effects are extremely rare with short-term use of recommended doses. Prolonged ingestion of overdoses may produce dyspnea, cyanosis, hemolytic anemia, skin rash, anorexia, subnormal temperature, insomnia, headache, mental disturbances, and tolerance. *Caffeine*—Side effects are almost always the result of overdosage. Average doses may rarely cause nausea, nervousness, insomnia, and diuresis. Excessive dosage may produce, in addition, restlessness, nervousness, tolerance, tinnitus, tremors, scintillating scotomata, tachycardia, and cardiac arrhythmias. *Codeine phosphate*—Possible side effects are nausea, vomiting, constipation, and miosis. *Carisoprodol*—The only side effect reported with any frequency is sleepiness, usually on higher than recommended doses. An occasional patient may not tolerate carisoprodol because of an individual reaction, such as a sensation of weakness. Other rarely observed reactions have included dizziness, ataxia, tremor, agitation, irritability, headache, increase in eosinophil count, flushing of face, and gastrointestinal symptoms. One instance each of pancytopenia and leukopenia, occurring when carisoprodol was administered with other drugs, has been reported, as has an instance of fixed drug eruption with carisoprodol and subsequent cross-reaction to meprobamate. Rare allergic reactions, usually mild, have included one case each of anaphylactoid reaction with mild shock and angioneurotic edema with respiratory difficulty, both reversed with appropriate therapy. In cases of allergic or hypersensitivity reaction, carisoprodol should be discontinued and appropriate therapy initiated. Suicidal attempts may produce coma and/or mild shock and respiratory depression.

Dosage: Usual adult dosage of 'Soma' Compound or 'Soma' Compound with Codeine is one or two tablets three times daily and at bedtime.

Supplied: 'Soma' Compound, orange tablets, each containing carisoprodol 200 mg., phenacetin 160 mg., and caffeine 32 mg. 'Soma' Compound with Codeine, white capsule-shaped tablets, each containing carisoprodol 200 mg., phenacetin 160 mg., caffeine 32 mg., and codeine phosphate 16 mg. Narcotic order form required.

Before prescribing, consult package circular.

WALLACE LABORATORIES *Cranbury, N. J.*

It doesn't follow, though, that health insurance is health insurance is health insurance.

Who administers your patients' health insurance is of great significance both to you and to them.

Whether commercial or nonprofit; whether run by public-spirited medical economists or government bureaucrats—these are matters about which you feel strongly and are deeply concerned.

Show your support of the privately-run, nonprofit approach. Write or phone today for your "Invitation to Participate."

GHI **GROUP HEALTH INSURANCE, INC.**

221 Park Avenue South / New York 3, New York / SPring 7-6000

Recommended Dosage of Lomotil Liquid to Control Diarrhea

File: Diarrhea

LOMOTIL®

Age	INITIAL LOMOTIL LIQUID DOSAGE*
3-6 mo.	½ tsp. t.i.d. (3 mg.)
6-12 mo.	½ tsp. q.i.d. (4 mg.)
1-2 yr.	½ tsp. 5 times daily (5 mg.)
2-5 yr.	1 tsp. t.i.d. (6 mg.)
5-8 yr.	1 tsp. q.i.d. (8 mg.)
8-12 yr.	1 tsp. 5 times daily (10 mg.)
Adult	2 tsp. 5 times daily (20 mg.) (or 2 tablets q.i.d.)

*Based on 4 cc. per average teaspoonful.
Note: After diarrhea is controlled the initial dosage can usually be reduced to meet the requirements of the individual patient.

LOMOTIL® TABLETS/LIQUID

Each tablet and each 5 cc. of liquid contains:

diphenoxylate hydrochloride ..... 2.5 mg.
(Warning: May be habit forming)
atropine sulfate ..... 0.025 mg.

Precautions

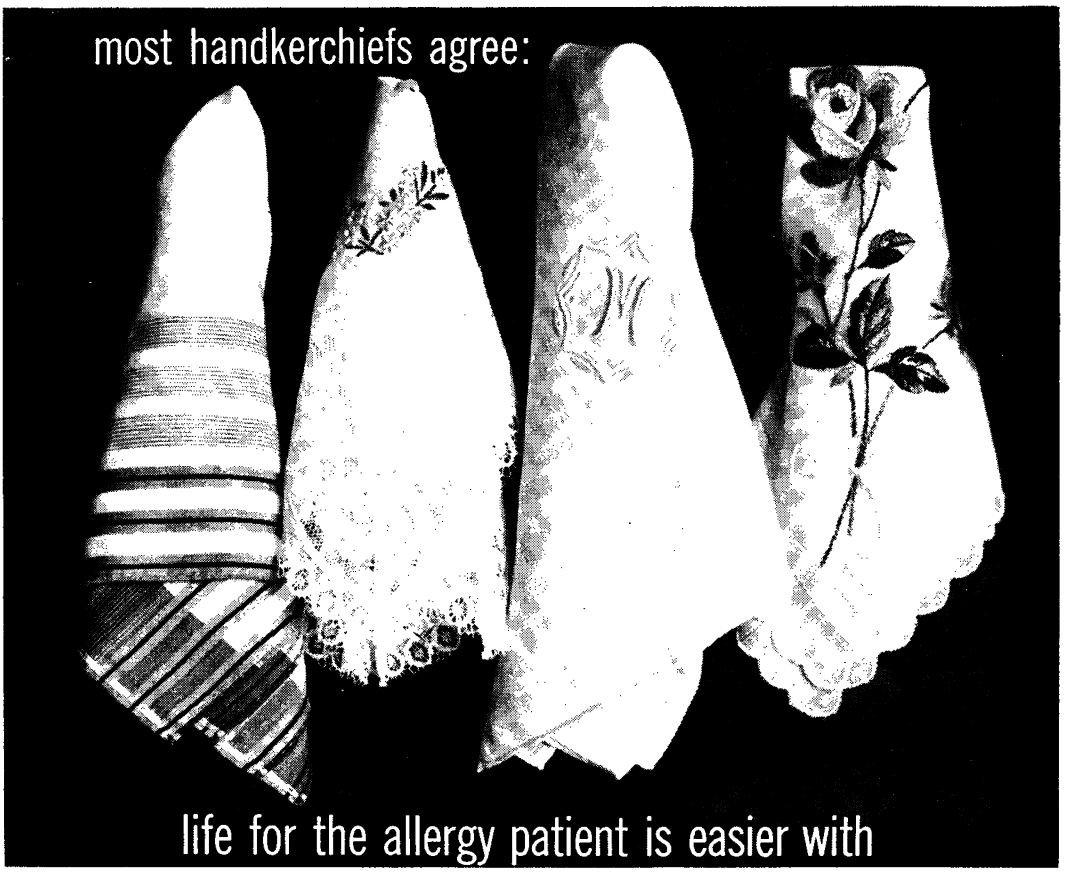
Lomotil is an exempt narcotic preparation of very low addictive potential. Recommended dosages should not be exceeded. Lomotil should be used with caution in patients with impaired liver function and in patients taking addicting drugs or barbiturates.

Cautions and Side Effects

Side effects are relatively uncommon but among those reported are gastrointestinal irritation, sedation, dizziness, cutaneous manifestations, restlessness and insomnia.

Lomotil is a brand of diphenoxylate hydrochloride with atropine sulfate; the subtherapeutic amount of atropine is added to discourage deliberate overdosage.

SEARLE *Research in the Service of Medicine*



'PERAZIL'® brand
CHLORCYCLIZINE HYDROCHLORIDE

USES: Relieves the symptoms of sneezing, "incessant" itching, inflamed eyes, rhinorrhea, itching eyes, nose and throat, associated with:
Hay Fever • *Pollenosis* • *Pruritus* • *Urticaria* • *Vasomotor Rhinitis* • *Allergic Dermatitis* • *Drug Sensitivity*

ADVANTAGES: Both prompt and prolonged in effect, providing symptomatic relief lasting 12 to 24 hours from a single dose.

PRECAUTION: When drowsiness does occur, it is generally mild and the usual precautions should be observed. No toxic effects related to either the blood-forming organs or the cardiovascular system are produced.

DOSAGE: Adults and children over 8 years, 50 mg. once or twice daily as required. The dose may be increased in severe cases.

Children from 2 to 8 years, 25 mg. (one sugar-coated tablet) once daily.

Infants up to 2 years, 12½ mg. (one quarter of a 50 mg. tablet) crushed and mixed with a spoonful of jam or syrup.

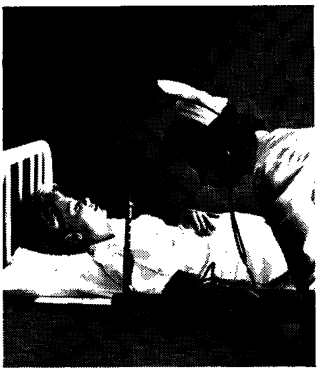
SUPPLIED: Tablets of 25 mg., sugar-coated, bottles of 100 and 1000; Tablets of 50 mg., scored, bottles of 100 and 1000.

Complete literature available on request
from Professional Services Dept. PML.

BURROUGHS WELLCOME & CO. (U. S. A.) INC., Tuckahoe, New York

Edema

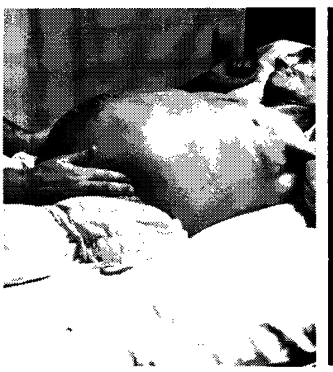
Essential hypertension



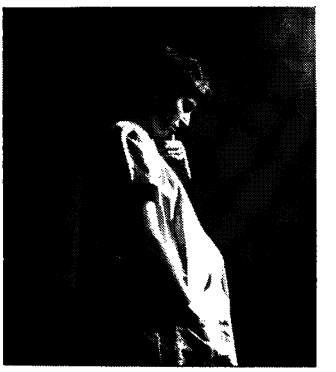
Toxemia of pregnancy

In edematous conditions . . . brisk diuresis with the convenience of once-daily dosage

Congestive heart failure



Liver cirrhosis



Excessive weight gain of pregnancy

Anhydron® is useful in edema associated with premenstrual tension, toxemia of pregnancy, and cirrhosis of the liver and in congestive heart failure and mild hypertension. It is also a valuable adjunct to other antihypertensive agents. Anhydron® K (each tablet containing 2 mg. cyclothiazide and 500 mg. potassium chloride) is indicated when potassium supplementation is desirable. Anhydron® KR (each tablet containing 2 mg. cyclothiazide, 500 mg. potassium chloride, and 0.25 mg. reserpine) is indicated for reduction of arterial hypertension when further supplementation with reserpine is desirable.

Contraindications, Precautions, and Side-Effects: Like other thiazides, Anhydron may elevate serum uric acid levels in some patients and produce a decrease in glucose tolerance. It should not be used in severe renal impairment. Injudicious use of Anhydron may result in sodium and potassium depletion. In hypertensive patients, lightheadedness and weakness upon standing, extensive orthostatic hypotension (usually associated with tachycardia), and a rising blood urea nitrogen or nonprotein nitrogen may indicate overdosage. If side-effects occur, dosage should be reduced or discontinued. Side-effects and contraindications of Anhydron apply to Anhydron K and Anhydron KR. Side-effects of reserpine include mental depression, nasal stuffiness, lassitude, laxative effect, sense of fullness in the abdomen, nightmares, and reduction in libido and potency. Reserpine should be used cautiously in patients with a history of mental depression, peptic ulcer, or ulcerative colitis.

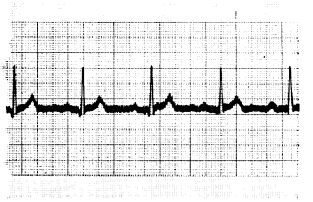
ANHYDRON®
CYCLOTHIAZIDE

Lilly

500280

Additional information available to physicians upon request. Eli Lilly and Company, Indianapolis 6, Indiana.

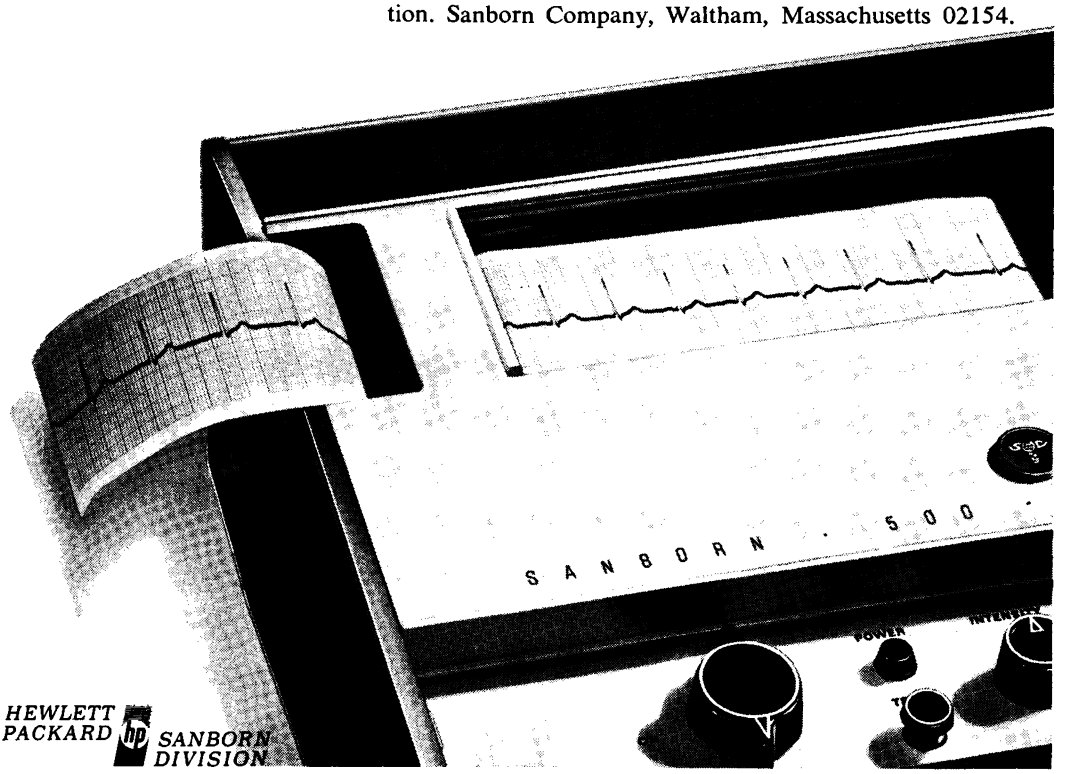
AC can cause ECG problems



the 500 VISO minimizes AC interference

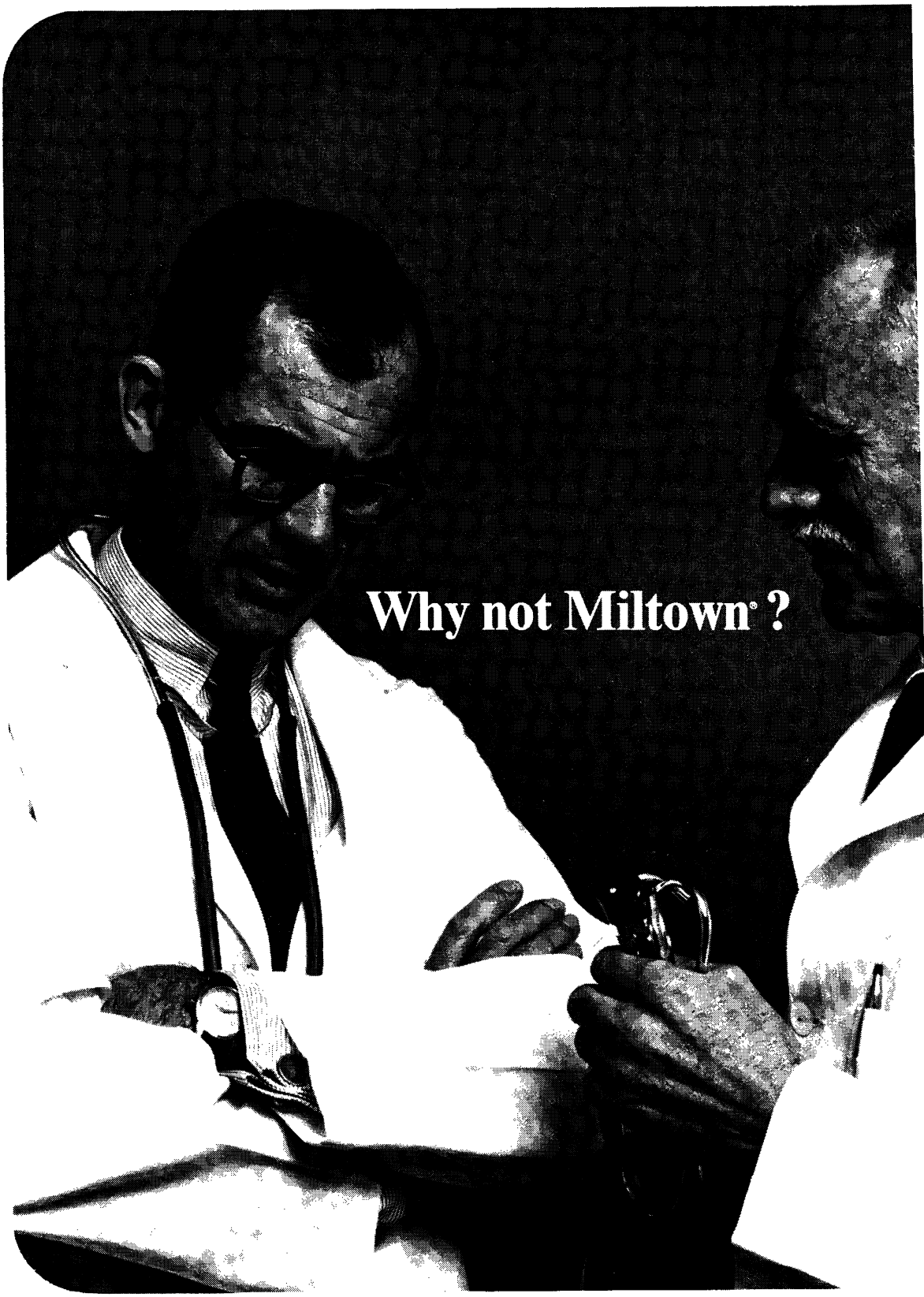
To help you get *clear,* diagnostically *useful* cardiograms quickly and easily, special circuits in the new 500 VISO effectively cancel the most commonly occurring types of "AC artifacts." And an important companion development which takes advantage of the characteristics of the "500" is Redux *Creme* — easier to apply than an abrasive paste, aesthetically more pleasing to patient and technician alike, less time-consuming from start to finish.

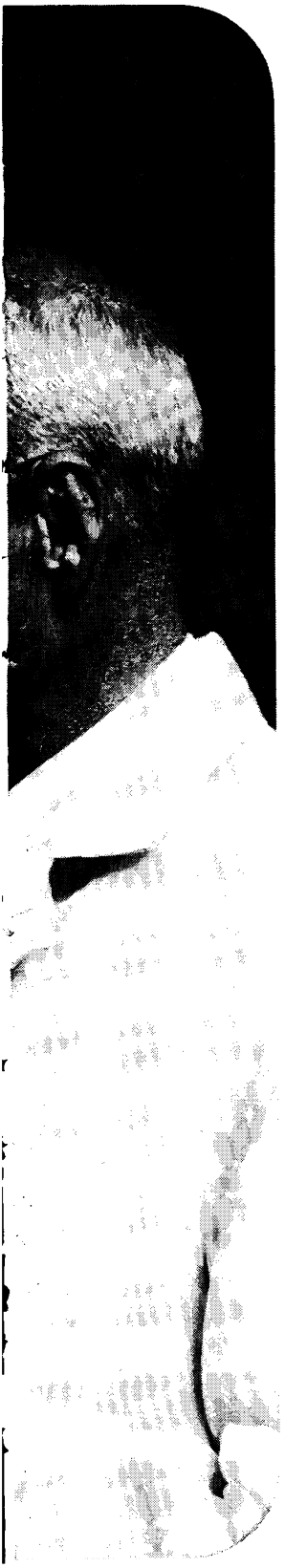
This slim, lightweight cardiograph has two chart speeds, three recording sensitivities, functionally-grouped controls, interior space for all accessories, and other physiologic recording capabilities as well — yet costs only $695 delivered, Continental U. S. Call Sanborn now for full 500 VISO information. Sanborn Company, Waltham, Massachusetts 02154.



HEWLETT PACKARD hp SANBORN DIVISION

NEW YORK CITY *Sanborn Division,* 1841 Broadway, (212) 247-5794
New York, New York 10023


Why not Miltown® ?



There are few "nots" in Miltown® therapy

■ Clinicians throughout the world consider meprobamate a therapeutic standard in the management of anxiety and tension.

■ The high safety-efficacy ratio of 'Miltown' has been demonstrated by more than a decade of clinical use.

Indications: 'Miltown' (meprobamate) is effective in relief of anxiety and tension states. Also as adjunctive therapy when anxiety may be a causative or otherwise disturbing factor. Although not a hypnotic, 'Miltown' fosters normal sleep through both its anti-anxiety and muscle-relaxant properties.

Contraindications: Previous allergic or idiosyncratic reactions to meprobamate or meprobamate-containing drugs.

Precautions: Careful supervision of dose and amounts prescribed is advised. Consider possibility of dependence, particularly in patients with history of drug or alcohol addiction; withdraw gradually after use for weeks or months at excessive dosage. Abrupt withdrawal may precipitate recurrence of pre-existing symptoms, or withdrawal reactions including, rarely, epileptiform seizures. Should meprobamate cause drowsiness or visual disturbances, the dose should be reduced and operation of motor vehicles or machinery or other activity requiring alertness should be avoided if these symptoms are present. Effects of excessive alcohol may possibly be increased by meprobamate. Grand mal seizures may be precipitated in persons suffering from both grand and petit mal. Prescribe cautiously and in small quantities to patients with suicidal tendencies.

Side effects: Drowsiness may occur and, rarely, ataxia, usually controlled by decreasing the dose. Allergic or idiosyncratic reactions are rare, generally developing after one to four doses. Mild reactions are characterized by an urticarial or erythematous, maculopapular rash. Acute nonthrombocytopenic purpura with peripheral edema and fever, transient leukopenia, and a single case of fatal bullous dermatitis after administration of meprobamate and prednisolone have been reported. More severe and very rare cases of hypersensitivity may produce fever, chills, fainting spells, angioneurotic edema, bronchial spasms, hypotensive crises (1 fatal case), anuria, anaphylaxis, stomatitis and proctitis. Treatment should be symptomatic in such cases, and the drug should not be reinstituted. Isolated cases of agranulocytosis, thrombocytopenic purpura, and a single fatal instance of aplastic anemia have been reported, but only when other drugs known to elicit these conditions were given concomitantly. Fast EEG activity has been reported, usually after excessive meprobamate dosage. Suicidal attempts may produce lethargy, stupor, ataxia, coma, shock, vasomotor and respiratory collapse.

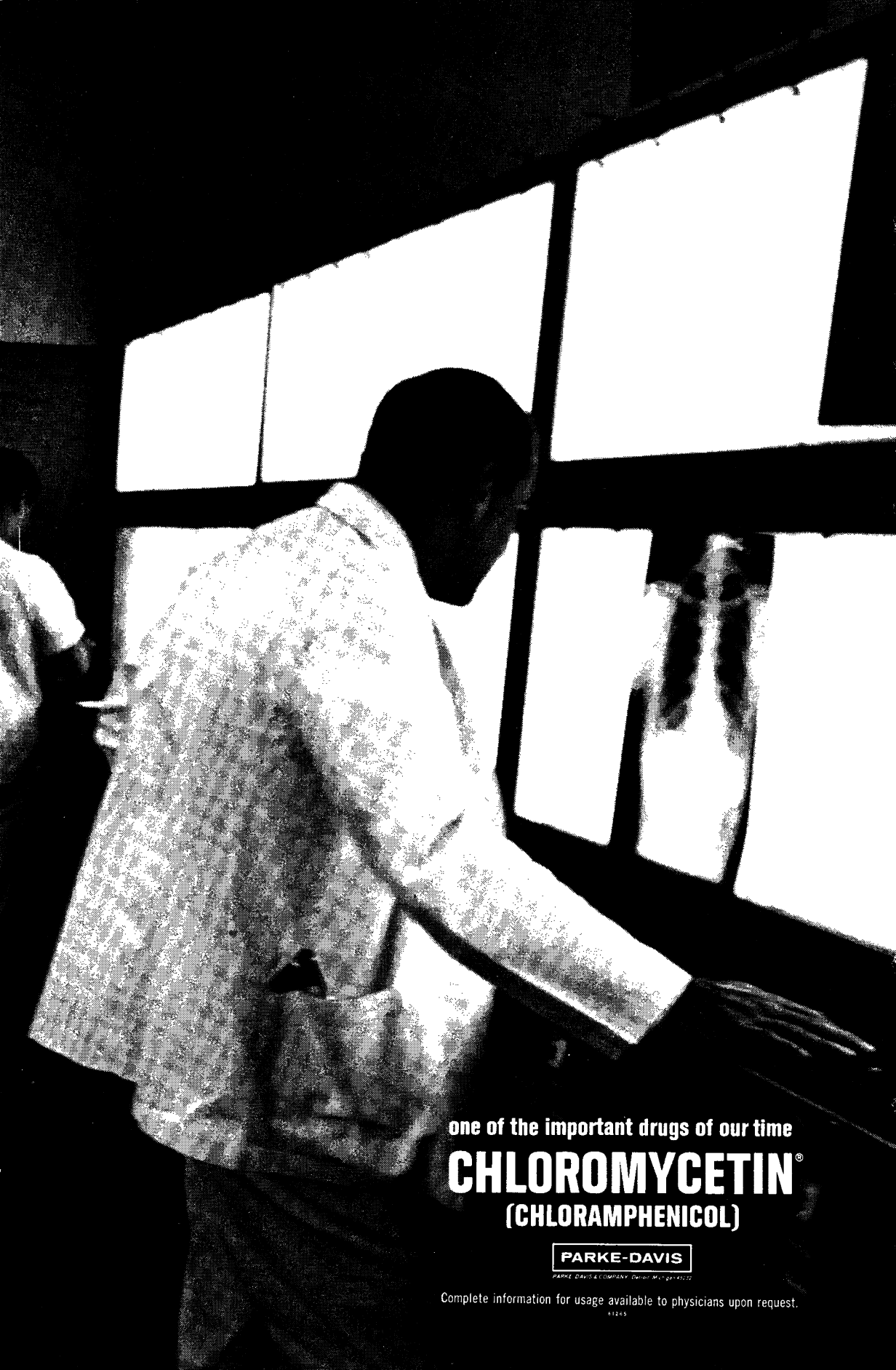
Usual adult dosage: One or two 400 mg. tablets three times daily. Doses above 2400 mg. daily are not recommended.

Supplied: In two strengths: 400 mg. scored tablets and 200 mg. coated tablets.

Before prescribing, consult package circular.

Miltown® (meprobamate)

WALLACE LABORATORIES / *Cranbury, N.J.*


one of the important drugs of our time
CHLOROMYCETIN®
(CHLORAMPHENICOL)
PARKE-DAVIS
PARKE, DAVIS & COMPANY, Detroit, Michigan 48232
Complete information for usage available to physicians upon request.
61245

for The Age of Anxiety

LIBRIUM®
(chlordiazepoxide HCl)

5 mg, 10 mg, 25 mg capsules

Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, N.J. 07110

In prescribing: Dosage – Adults: Mild to moderate anxiety and tension, 5 or 10 mg t.i.d. or q.i.d.; severe states, 20 or 25 mg t.i.d. or q.i.d. Geriatric patients: 5 mg b.i.d. to q.i.d. **Side Effects:** Side effects, often dose-related, are drowsiness, ataxia, minor skin rashes, menstrual irregularities, nausea and constipation. When treatment is protracted, blood counts and liver function tests are advisable. Paradoxical reactions may occasionally occur in psychiatric patients. Individual maintenance dosages should be determined. **Precautions:** Advise patients against possibly hazardous procedures until maintenance dosage is established. Though compatible with most drugs, use care in combining with other psychotropics, particularly MAO inhibitors or phenothiazines; warn patients of possible combined effects with alcohol. Observe usual precautions in impaired renal or hepatic function, and in long-term treatment. Exercise caution in administering drug to addiction-prone patients or those who might increase dosage; withdrawal symptoms, similar to those seen with barbiturates or meprobamate, can occur upon abrupt cessation after prolonged overdosage. Caution should be exercised in prescribing any therapeutic agent for pregnant patients. **Supplied:** Capsules, 5 mg, 10 mg and 25 mg, bottles of 50 and 500.